Figure 1

	pl0	p9	p8	p7	<b>p</b> 6	рS	p4	<b>p</b> 3	p2	p1	p1'	p2'	p3'	p4'	p5'	p6'	<b>p</b> 7'	b8,	p9,	p10*
POLIM	i	g	n	С	m	е	a	1	F	Q	G	p	1	q	у	k	d	1	k	i
POLIS	i	g	n	c	m	e	a	1	F	Q	G	p	1	q	У	k	d	1	k	i
POL32	i	g	n	c	m	e	a	1	F	Q	G	p	1	q	У	k	d	1	k	i
POL3L	i	g	n	С	m	e	a	1	F	Q	G	p	1	q	У	k	d	1	k	i
COXA2	i	g	n	c	m	e	a	1	F	Q	G	p	1	r	y	k	d	1	k	i
COXA4	i	g	n	С	m	e	a	1	F	Q	G	p	i	q	У	r	d	V	m	i
BOVEV	i	g	n	V	1	e	a	1	F	Q	$\mathbf{G}$	p	V	С	У	k	p	1	r	i
COXA9	v	g	a	t	1	e	a	1	F	Q	$\mathbf{G}$	p	p	i	У	r	е	i	k	i
COXBI	v	g	a	t	1	e	a	1	F	Q	G	p	p	i	У	Γ	e	i	k	i
COXB5	v	g	a	t	1	e	a	1	F	Q	G	p	p	i	У	Γ	е	i	k	i
EC11G	v	g	a	t	1	e	a	1	F	Q	G	p	p	i	У	r	е	i	k	i
COXB4	V	g	a	t	1	e	a	1	F	Q	G	p	p	$\mathbf{V}$	у	r	e	i	k	i
SVDVH	v	g	a	t	1	e	a	1	F	Q	G	p	p	V	У	r	е	i	k	i
SVDVU	v	g	a	t	1	е	a	1	F	Q	G	p	p	V	У	r	e	i	k	i
COXB3	v	g	t	t	1	е	a	1	F	Q	G	p	p	V	У	r	e	i	k	i
HUEV7	t	q	d	k	1	e	а	1	F	Q	G	p	p	t	f	k	e	i	k	i
HRVIB	$\mathbf{v}$	V	d	V	m	S	a	i	F	Q	G	p	i	S	1	d	а	p	p	p
HRV2	V	V	d	$\mathbf{v}$	m	t	a	i	F	Q	G	p	i	d	m	k	n	p	p	p
HRV89	a	a	q	а	m	e	a	i	F	Q	G	i	d	1	q	S	p	p	p	p
HRV14	i	t	d	S	1	e	t	1	F	Q	G	р	V	у	k	d	1	е	i	d

## Figure 2A

$$OH \longrightarrow CH_{2} \longrightarrow OH$$

$$OH \longrightarrow CH_{2} \longrightarrow OH$$

$$OH \longrightarrow CH_{2} \longrightarrow OH$$

$$R_{1} = CH_{2} \longrightarrow (CH_{2})_{n} \longrightarrow C-R' \qquad R' = CH_{3}, OEt$$

$$R_{1} = CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{3}$$

$$R_{1} = CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{3}$$

$$R_{1} = CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{3}$$

$$R_1 = NH - C - C - CH_3$$
  $R'' = CH - CH_3$  ,  $CH_2 - CH_2$ 

$$R_1 = CH_{2} - C - C - NH - C - C - CH_{3} \quad R'' = CH - CH_{3}$$

$$R''' = \text{aromatic ring}$$

$$CH_{3} - CH_{2} - CH_{2}$$

## Figure 2A (con't)

3. 
$$R_2 = \begin{array}{c} O \\ || \\ C - NH - C - CH_2 \\ || \\ R' \end{array}$$

$$R'=\ CH - CH_3$$
 ,  $CH_2 - CH_3$  ,  $CH_3$  ,  $CH_3$  ,  $CH_3$  ,  $CH_3$  ,  $CH_3$ 

$$NH_{2} \sim NH_{2}$$

$$NH_{2} \sim NH_{2}$$

$$O (CH_{2})_{4} O O$$

$$R'' = C - C - NH - C - C - C - CH_{3}$$

$$R'''$$

R'" = Small or branches aliphatic like side chain of Leu, Val, Ile o

## Figure 2A (con't)

$$R_{1} = O$$

$$OH$$

$$Etc.$$

$$R_1 = CH_2$$

OH

 $R_1 = CH_2$ 

OH

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 $R_3 =$ 

ÇH<sub>3</sub>

Cl

Figure 2B